COMPLETE & CORRECTED

## **Science Data Support Team**

Report to MODIS Science Team

Santa Barbara, California

27 October 28,1992

Albert J. Fleig

MODIS SCIENCE TEAM at SBRC 10/28/92 Alben J. Fleig

### **Overview**

- · Processing Flow
- Documents
- Instrument Duty Cycle
- Prototypes
- · Schedule

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#### **Processing Flow**

- Start From Science Team Inputs To Project's Data Base
- · Reduce the Number of Products
  - Combine Scales
  - Combine Products
  - Remove Level 3
- · New Flow Charts in your Packets
- Lots of Questions
- · Lots of Tables

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#### **Was 195 Products**

Now 77, 49 AL-28 PL, Could be 40 AL-16 PL TABLES

- 1. all the products in the charts by number
- 2. sorted by scientist, then by algorithm
- 3. Our Proposal sorted by scientist

Box means can we combine these with some meaningful name?

Oval means we have a specific question

- 4. Level 3 Products (are there more?)
- 5. Questions, answer and return today
- 6. Summary of changes made by TM
- 7. MODIS Required by non-MODIS

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#### **Documents**

Science Data Management Plan

**Contract Requuirement** 

**Distributed August 28** 

8 Responses, 17 to go

· Science Computer Facility Plan

**Contract Requirement** 

Distributed in Registration Packet for TMs

Input and comments by November 20

· Programing Guidelines

**Draft Distributed** 

Periodically Updated as information becomes available

Updated as we all learn more

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#### **SCF PLAN**

Basis for Project Decisions, Budgets
You need to

make any desired generic comments tell why, what, when, and how much

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### **SDMP Responses**

Response Received

No Response Yet

John Barker Kendall Carder Dorothy Hall Alfredo R. Huete Steve Running Alan Strahler D. D. Tanre Zhengming Wan Mark Abbott lan Barton Otis Brown Dennis Clark Wayne Esaias Robert Eans Howard Gordon Frank Hoge Yoram Kaufman Michael King Paul Menzel Jan-Peter Muller John Parslow Vince Salomonson Philip Slater

Vern Vanderbilt

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**Chris Justice** 

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## **Changing TM Code**

- · DIS standards
- toolkit
- PGS hardware configuration
- · integration with other MODIS code
- · structured input and output of MODIS data
- · ingestion of non-MODIS data
- · testing/certification

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### **MODIS Prototypes**

Guidelines

Dont make things worse for TMs
Produce things that are useful to TMs
Science Algorithms from appropriate TMs

· Goals

Prototype Level 2 Processing Shell Gain experience working with TMs Introduce reality into activities

· Meeting Objecties

Define initial protoypes Identify who will provide prototype algorithms Establish schedules

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Control Mechanisms
Data Flows
Algorithm Interactions
I/O redundancy
Process scheduling
Processing Efficency
programing approach/standards

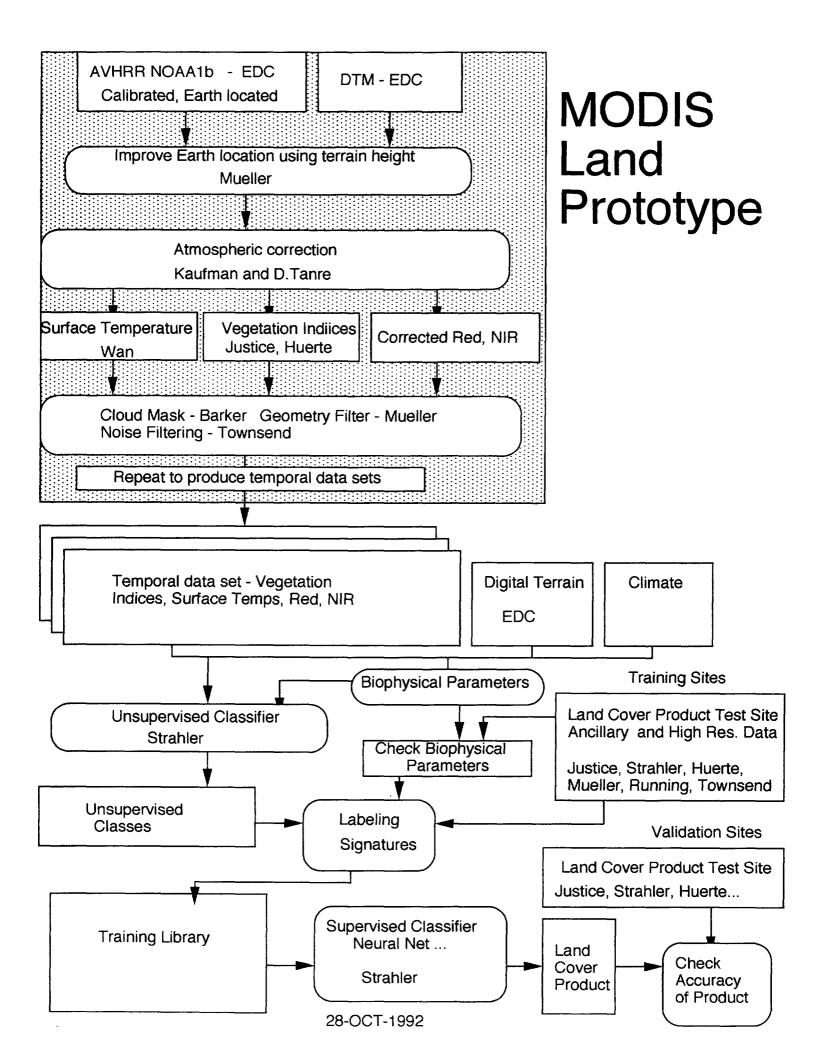
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## **What Delivery Means**

- · Source code that works for you at your SCF
- · Make Files
- · Input data set used for checkout at your SCF
- · Output from checkout at your SCF
- · Programming comments

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# **MODIS Level-1 Code Development Schedule**

Milestone / Calendar Year	1992	1993	1994	1995	1996	1997	1998	1999
Beta Version Develop Level-1A		PDR	CÓR					
Develop Level-1B		PDR_	CDR					
Test Development								
Internal Test				7				
Test With PGS Beta Toolkit				Deli	ver to ECS			
Test on PGS								
Version 1 Develop Code				CDR				
Test Development								
Internal Test								
Test With PGS V1 Toolkit					Del	iver to ECS		
Test on PGS								
Version 2 Develop Code					CDR			
Test Development								
Internal Test			\			7		
Test With PGS V2 Toolkit						De	liver to ECS	
Test on PGS		/ U U.Z/	70 1					
Key External Milestones		ECS E	PDR CI     S	CS DAAC S DR BETA V	CF ECS S	SCF ECS F V2 V2	PLF   LAUNCH	

# **MODIS Level-2 to 4 Science Code Development Schedule**

Milestone / Calendar Year	1992	1993	1994	1995	1996	1997	1998	1999
Coding Recommendations		Beta	Yv <sub>1</sub>	V2				
MODIS Level-2 to 4 Processing Shell		SRR P	RCDR	Beta	V1	Yv2		
Review of TM Algorithms	The state of the s	eta 🗡			一字			
Beta Version TM Coding Concepts								
TM Code Development					eta Stops_			
SDST Integrate			<b>S</b>					
SDST Deliver and Test								
Version 1 TM Code Development					Tabl	V1 Stops		
SDST Integrate								
SDST Deliver and Test								
Version 2 TM Code Development							V2 Stops	
SDST Integrate		/ U U <i>U</i>	/7 U			大	Freeze	
SDST Deliver and Test								
End-to-End Test								
First Post-Launch Development								
SDST Integrate, Deliver, and Test								
INITIAL DELIVERY		ECS E	CS E	CS DAAC S	CF ECS	SCF ECS F		
Key External Milestones			DR C		V1 V1	V2 V2	LAUNCH	